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APPLICATION NO.	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/519,547	03/06/2000	Jozeph W. Triepels	PHN 17,327	8969	
75	90 01/24/2002				
	LIPS CORPORATION	EXAMINER			
INTELLECTUA 580 WHITE PL	AL PROPERTY DEPAI AINS ROAD	NGUYEN, TRUC T			
TARRYTOWN	, NY 10591		ART UNIT	PAPER NUMBER	
			2833		
			DATE MAILED: 01/24/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.		Applicant(s)	•				
Office Action Summary		09/519,547		TRIEPELS ET AL.					
		Examiner		Art Unit					
•		Truc T. T. Nguye	n	2833	droop				
Period for Reply	TE of this communication a				uress				
THE MAILING DATE O - Extensions of time may be averafter SIX (6) MONTHS from the - If the period for reply specified - If NO period for reply is specified	JTORY PERIOD FOR REP F THIS COMMUNICATION in the mailing date of this communication. above is less than thirty (30) days, a reverse days, the maximum statutory perior extended period for reply will, by static later than three months after the mail it. See 37 CFR 1.704(b).	I. 1.136(a). In no event, howe ply within the statutory min d will apply and will expire to	iver, may a reply be tim imum of thirty (30) days SIX (6) MONTHS from b become ABANDONEI	ely filed s will be considered timely the mailing date of this co	y. ommunication.				
	communication(s) filed on 14	4 November 2001 .							
2a) This action is FI	NAL. 2b)⊠	This action is non-fi							
Cinco this applie	— This determine the second state of the merits is								
Disposition of Claims									
4)⊠ Claim(s) <u>1-3 an</u> d	<u>d 5-10</u> is/are pending in the	application.							
4a) Of the above	claim(s) is/are withd	rawn from consider	ation.						
5) Claim(s)i	s/are allowed.								
6)⊠ Claim(s) <u>1-3 and</u>	<i>l 5-10</i> is/are rejected.								
7) Claim(s)i									
8) Claim(s)	are subject to restriction and	d/or election require	ement.						
Application Papers									
9) The specification	is objected to by the Exam	iner.							
10) The drawing(s) fi	led on is/are: a)□ ac	ccepted or b) 🔲 objec	ted to by the Exa	aminer.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) The proposed dra	awing correction filed on	is: a) 🗌 approv	red b)⊡ disappr	oved by the Exami	ner.				
If approved, core	If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declar	aration is objected to by the	Examiner.							
Priority under 35 U.S.C.	§§ 119 and 120								
13) Acknowledgme	nt is made of a claim for for	eign priority under 🤄	35 U.S.C. § 119((a)-(d) or (f).	·				
1	ne * c)☐ None of:								
1. Certified	copies of the priority docum	ents have been red	ceived.						
2. Certified	2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
14) \ \ \Delta cknowledgmen	is made of a claim for dom	estic priority under	35 U.S.C. § 119	(e) (to a provision	al application).				
a) The transla	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received.								
15) Acknowledgmen	t is made of a claim for don	nestic priority under	· 35 U.S.C. §§ 12	20 and/or 121.					
Attachment(s)	-4 (DTO 900)	4) [Interview Summa	ary (PTO-413) Paper I	No(s)				
Notice of References Cit Notice of Draftsperson's Information Disclosure S	ed (PTO-892) Patent Drawing Review (PTO-948 tatement(s) (PTO-1449) Paper No	s)	Notice of Informa	al Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-3, 6, 8, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lazzery (US 4,012,117) in view of Lightbody et al (US 4,528,500).

Regarding claims 1-2, Lazzery discloses a display device (20) comprising a first substrate (90) having conductor pattern (106) and electrically conducting connections (24) between the pattern and conducting tracks (40) on a support (12), said conducting connection comprising a resilient connection (70).

Lazzery does not disclose the resilient connection comprises a resilient pin which provide variable-pressure metal-metal contact.

Lightbody et al disclose a resilient connection pin (12) providing variable-pressure metalmetal contact.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a resilient connection pin into Lazzery's display device, as taught by Light body et al for ease of replacement when a single contact is malfunction.

Lazzery does not specifically disclose the metal-metal contact is a chosen from the group of gold, silver and nickel. Lazzery only disclose the metal-metal contact is made by copper clad

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gold. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a gold material into Lazzery's contacts for good conductivity. Since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Regarding claim 3, modified device of Lazzery in view of Lightbody et al discloses the metal-metal contact is present at the area of the first substrate.

Regarding claim 6, modified device of Lazzery in view of Lightbody et al discloses the conductor pattern on the first substrate faces the support.

Regarding claim 8, modified device of Lazzery in view of Lightbody et al discloses the display device comprises a second substrate (92) opposite from part of the first substrate (90) and an electro-optical material (93) between the two substrates, each being provided with substrate electrodes (94) which define pixels with the electro-optical material, the first substrate being provided with the conductor pattern beyond the part of the first substrate located opposite the second substrate.

Regarding claim 10, modified device of Lazzery in view of Lightbody et al discloses a part of the conductor pattern is connected in an electrically conducting manner to a conducting track on the side of the support remote from the first substrate.

8. Claims 5 and 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lazzery (US 4,012,117) in view of Lightbody et al (US 4,528,500) as applied to claim 1 above, and further in view of Hiramoto et al (US 5,847,783).

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Modified device of Lazzery in view of Lightbody et al substantially discloses the claimed invention except the conducting connection between the resilient conductor and the conductor pattern comprises an anisotropically conducting foil.

Hiramoto et al discloses an anisotropic conducive adhesive (20) is used in the liquid display (column 4, lines 20-23).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide an anisotropical material into Lazzery's conducting connection, as taught by Hiramoto et al for electrically conducting purpose.

Regarding claim 9, modified device of Lazzery in view of Lightbody et al substantially discloses the claimed invention except the display device comprises an electroluminescent material.

Hiramoto et al discloses an electroluminescent layer (15c) is used in the liquid display (column 4, lines 9-13).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide an electroluminescent material into Lazzery's liquid display, as taught by Hiramoto et al providing self emitting light to the display.

9. Claim 7 rejected under 35 U.S.C. 103(a) as being unpatentable over Lazzery (US 4,012,117) in view of Lightbody et al (US 4,528,500) as applied to claim 1 above, and further in view of lguchi (US 5,233,451).

Lazzery substantially discloses the claimed invention except the electrically conducting connection comprising a conducting part which encloses the edge of the first substrate.

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Iguchi disclose a conducting element (23) which encloses the edge of the substrate (16) for used in a liquid display.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a conducting element encloses the edge of Lazzery's first substrate, as taught by Iguchi for better electrical connection.

Conclusion

This is a NON-FINAL action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Truc T. Nguyen whose telephone number is (703) 306-4004. The examiner can normally be reached on Monday through Thursday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Austin Bradley, can be reached on (703) 308-2319. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7722.

T. Nguyen – January 16, 2002

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